

Zettelmeyer

ZL1001

Wheel Loader



Progress is our Tradition

Wheel Loader ZL1001



Engine

Make	Deutz/diesel, 4 cycle
Type	F4L 913
Gross Power @ 2500 rev/min	62/84 kW/hp
Net Power @ 2500 rev/min DIN 70020	59/80 kW/hp
Max. torque @ 1550 rev/min	255 Nm
No. cylinders/configuration	4/in-line
Bore/stroke	102/125 mm
Total displacement	4086 cm ³
Combustion system	direct injection
Cooling	air

Electrical system:

Battery	12/143 V/Ah
Alternator	14/65 V/A
Starter	12/3 V/kW



Transmission

Hydrostatic transmission, full powershift under load when changing direction (forward and reverse).
Two speed transfer gearbox for work and travel range.
Inching pedal for variable machine speed control whilst maintaining engine power.

	Speed	
	Forward km/h	Reverse km/h
Work range	12.0	12.0
Travel range	25.0	25.0



Axles

All-wheel drive by two portal axles.
100%, hydraulically operated differential lock in both axles.

Ground clearance	610 mm
Track	1820 mm
Oscillation at wheel, max.	420 mm
Angle of oscillation	± 13°



Brakes

1. Normal retardation is effected by the braking capacity of the hydrostatic motor acting upon all four wheels.
2. Service brake: hydraulically actuated oil immersed multi-disc brakes in the front and rear axle.
3. Parking brake: central drum brake, front axle mounted mechanically actuated.



Tyres

Standard: 17.5 - 25	10 PR (L-2)	Rim	12.00 x 25
Optional: 17.5 - 25	8 PR		14.00 x 25

NOTE: Under certain job conditions, a specific tread pattern may be required or, the t-km/h capability of standard or optional tyres may be exceeded. We recommend that tyre manufacturers be consulted for optimum tyre selection.



Steering

Central articulating oscillating joint with damping effect.

Angle of articulation ± 39°

Hydraulic steering via two double-acting steering cylinders.

Gear-type pump	
Flow @ 2500 rev/min	47.5 litres/min
Relief valve pressure	150 bar



Hydraulics

Two double-acting tilt cylinders
Two double-acting lift cylinders

Control valve three-spool system as standard equipment.

Gear-type pump	
Flow @ 2500 rev/min	112.5 litres/min
Relief valve pressure	180 bar

Common tank for working, drive and steering hydraulics safeguarded by a breather valve.
Thermostatically controlled oil circuit with integrated cooling system.
Filters can be changed without having to drain the tank.

Automatic bucket leveller	
Lift time (loaded)	6.0 sec
Lowering time (empty)	3.0 sec
Dump time	1.0 sec
Crowd time	1.0 sec



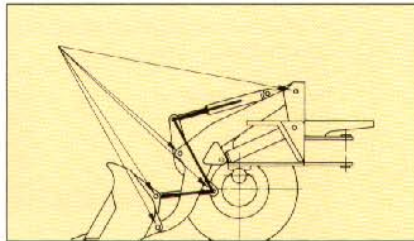
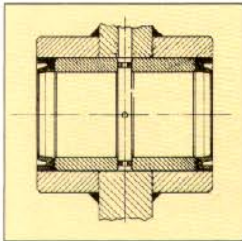
Service Refill Capacities

Fuel tank	110.0 litres
Engine	11.5 litres
Hydraulic system incl. tank	100.0 litres
Front axle	13.5 litres
Rear axle incl. transmission	14.5 litres

Low-Maintenance Loader Arms with Z-Bar-Linkage

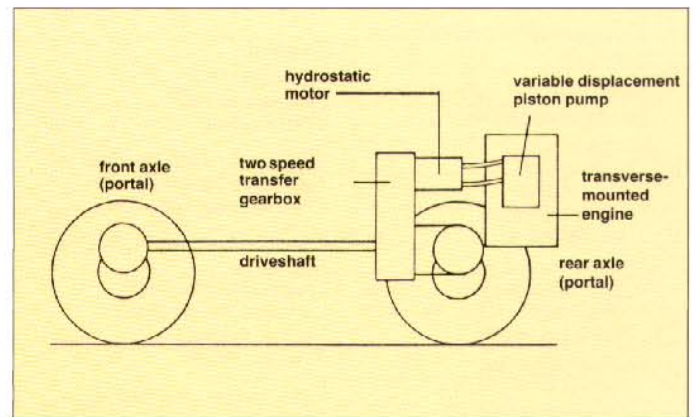
- excellent dump height and reach
- high breakout force
- fast bucket dump action
- good dump/roll back angles
- optimum bucket design
- very high bucket fill
- low-maintenance requirement due to sealed bearings

High-quality seals protect the bearings from dirt.



Hydrostatic Transmission

- maximum torque even at low engine speed
- low fuel consumption
- better efficiency on the job
- wear-free hydrostatic braking
- infinitely variable speed control over full speed range
- forward-reverse direction change under full load



Well Proven Design

Provides Reliability, High Performance and Economical Operation

Portal Axles with 100% Selectable Differential Lock

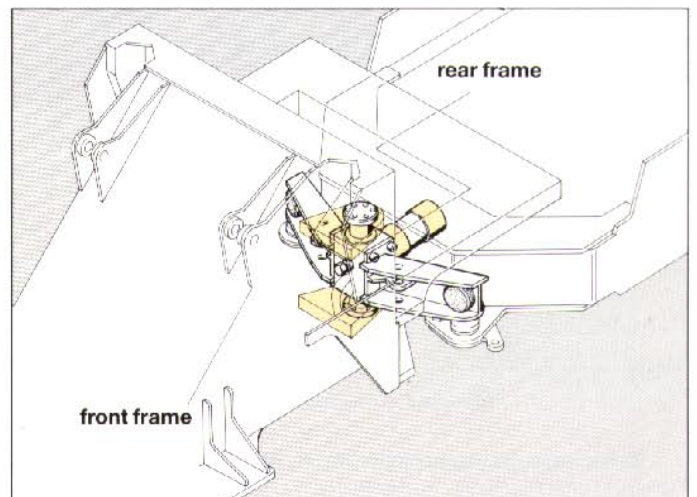
- 610 mm ground clearance
- optimum traction
- superb off-road capability
- enclosed oil immersed multi-disc brakes in the front and rear axle, supplement hydrostatic retardation
- portal reduction for maximum power transmission

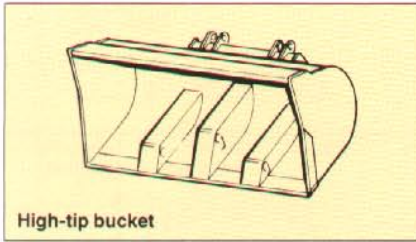
Hydrostatic Articulated Frame Steering with Articulating-Oscillating Joint

- Heavy duty large-diameter articulation-oscillation pin for minimum surface pressure with dirt protection seal.
- smooth and reliable steering, full tracking capacity
- 39° steering angle to both sides
- short turning radius, excellent manoeuvrability
- rigid axle mounting for constantly balanced load distribution add to good stability

Maintenance Free and Low Wear Service Brake in Front and Rear Axle

- closed service braking system integrated in the axle, providing protection against dirt and humidity
- hydraulically operated, oil-immersed multi-disc brakes
- easy service access
- separate parking drum brake, mounted in drive line

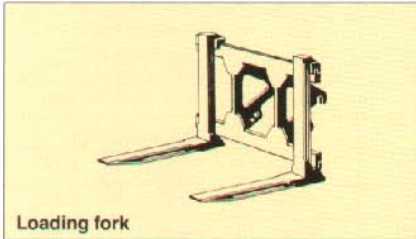




High-tip bucket

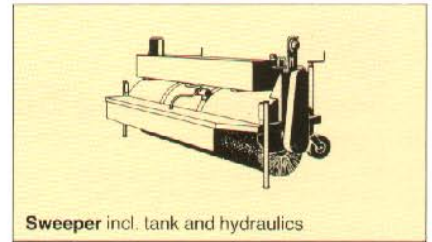
Zettelmeyer Front – End Quick Change Systems – Safe and Reliable:

Optional quick-change attachment carriers (hydraulic or mechanical) of different types are available for various attachments. This feature turns the ZL 1001 into a true industrial workhorse.

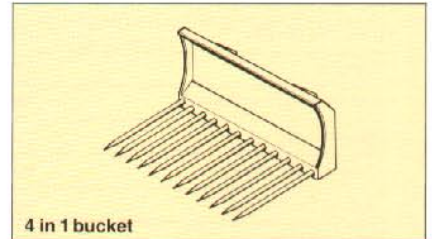


Loading fork

The Zettelmeyer »QC« quick change system allows all direct mounted ZL 1001 buckets and attachments to be also used as quick change attachments. Optional quick change carrier also available for ZL 1000 buckets and attachments.



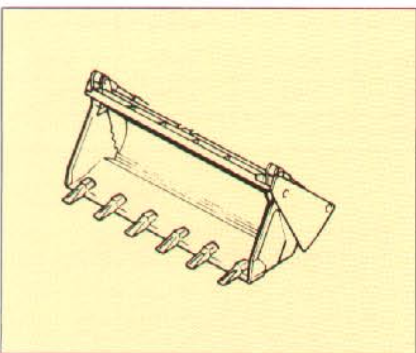
Sweeper incl. tank and hydraulics



4 in 1 bucket



With More than 40 Different Attachments Available the ZL 1001 Demonstrates Unrivalled Versatility in a Wide Range of Applications.



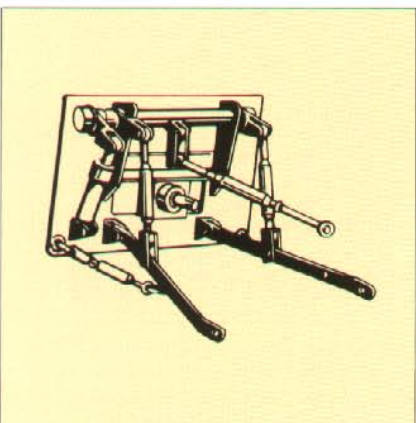
4 in 1 bucket with teeth.

The 4 in 1 Bucket - Efficient and Economical

8 functions can be activated via a hydraulic single lever control near the operator's seat: loading, scraping, grading, grabbing, clamshelling, excavating, backblading, dumping.



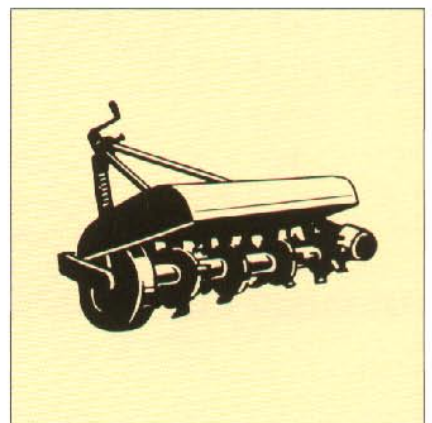
Main functions of the 4 in 1 bucket.



Three-point hydraulic attachment: cultivator.

Rear Mounted Attachments with and without PTO

A full range of attachments, easily interchangeable through a hydraulic three-point linkage, and powered by a PTO shaft when required, are available for agricultural, forestry and municipal applications.



Three-point hydraulic linkage with PTO

Wheel Loader ZL1001



Operating Data

Buckets		Bucket	Bucket	Bucket	Bucket	Bucket	Bucket	4 in 1 Bucket	High-Tip Bucket
Dimensions and weights with standard tyres and 150 kg standard counterweight.									
Material density, max.	t/m ³	2.35	1.8	1.5	1.05	0.8	0.6	1.85	1.0
Capacity, heaped	m ³	1.0	1.3	1.5	2.0	2.5	3.25	1.1	2.0
Capacity, struck	m ³	0.85	1.1	1.3	1.7	2.2	2.8	0.9	1.7
Payload	kg	2390	2390	2275	2175	2100	1950	2050	2025
Bucket weight with teeth	kg	510	520	580	650	700	800	710	800
Bucket teeth		8	8	8	8	8	8	8	-
Tipping load, straight	kg	6300	6250	5900	5800	5500	5300	5800	5650
Tipping load at 39°	kg	5650	5600	5300	5200	4900	4700	5200	5000
Breakout force	daN	6400	6000	5100	4300	3800	3300	5500	3900
Hydraulic lifting capacity, max.	daN	6400	6400	6100	5800	5600	5200	5800	5800
Operating weight	kg	7410	7420	7480	7550	7600	7700	7610	7700

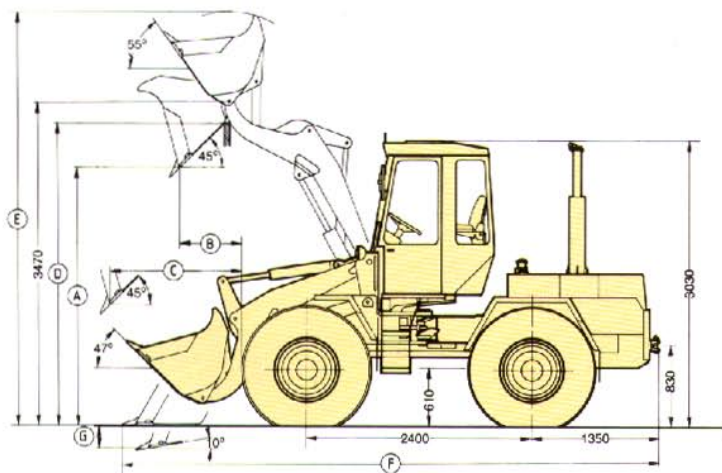


Dimensions

Adjustments for Tyres	Tipping Load at 39° kg	Operating Weight kg	Vertical Dimensions mm
17.5-25 (L-2)	+ 75	+ 106	+ 30

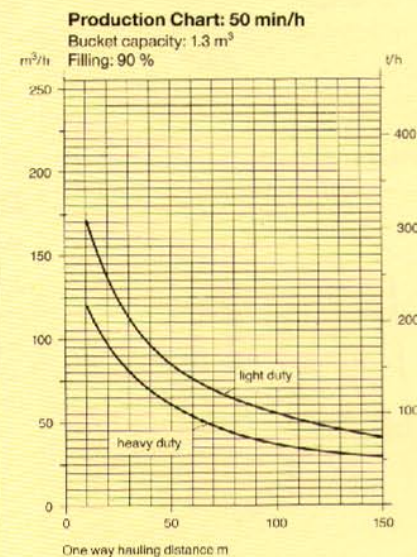
		Bucket	Bucket	Bucket	Bucket	Bucket	Bucket	4 in 1 Bucket	High-Tip Bucket
(A) Dump height	mm	2815	2745	2630	2500	2330	2330	2700	4075
(B) Reach at max. height	mm	635	710	750	885	840	1010	745	990
(C) Reach, max.	mm	1425	1500	1550	1675	1635	1800	1540	2130
(D) Load over height	mm	3190	3190	3150	3150	3080	3080	3210	4110
(E) Lift height max.	mm	4400	4460	4515	4670	4820	4870	4470	5460
(F) Total length	mm	5690	5760	5925	6100	6320	6470	5830	6000
(G) Digging depth at 10°	mm	200	215	280	315	470	460	225	280
Turning radius, outside bucket	mm	4860	4900	4960	5000	5050	5200	4920	5000
Bucket width	mm	2250	2250	2250	2250	2250	2500	2250	2250

Operating data in accordance with SAE standards. All technical data relate to the standard version. Machine illustrations may show optional features.



All dimensions relate to standard tyres.

Width across standard tyres 2220 mm.



Standard Equipment

Comfort ROPS cab

Detachable walk-through cab with flexible mountings, located on the front frame for better sound and thermal insulation whilst providing excellent all-round visibility on the job.

Insulation and acoustic lining
Lockable doors

4-way adjustable driver's seat
Seat belt

Steering wheel spinner knob
Neutral start switch

Gauges:

Fuel gauge
Hour meter
Drive system oil temperature

Indicator lamps for:
Direction indicator
Main beam
Battery charging

Warning lights for:
Engine temperature
Engine oil pressure
Drive system oil temperature
Air filter restriction

Central audible alarm for:
Engine temperature
Engine oil pressure
Drive system oil temperature
Air filter restriction

12 V power socket
Heater with defroster
Instrument lighting
Storage compartment in the door
Tool box (lockable)
Interior lighting

Windscreen wiper front and rear
Windscreen washer
Hinge-out upper door section
Hinge-out cab roof hatch

General

Alternator 65 A
Dry-type air filter
Cold start aid

Single lever loader control
Automatic bucket leveller
Front working floodlights

Fenders and service platforms
Hoodsides
Lockable engine hood
Lockable fuel-tank cab
Vertical exhaust
Towing device

External rear view mirrors
Safety kit
Counter weight



Optional Equipment

Dual air filtration
Battery cover
Dashboard cover
Air conditioning
Auxiliary hydraulics, front
Auxiliary hydraulics, rear
Three-point linkage with PTO shaft
PTO (hydraulic)
Extended lift arms
Rear backhoe mounting plate

Lifting eyes
FOPS guard
FOPS plate
Stacker guard
Roll bar
ROPS canopy

»QC« Quick-change attachment carrier, mechanical or hydraulic

Attachments:

Loading fork
Hook and tackle
Barrel clamp
Pusher plate
Angle dozer blade
Sweeper

Manure fork
Tree transplanter
Tree transplanting bucket
Log grapple

Wide range of bucket sizes and types with or without teeth
Silo bucket
Extra-wide bucket
Brick bucket
4 in 1 bucket
High-tip bucket
Side-tip bucket
Bolt-on cutting edge

Rear mounted backhoe
Rear scarifier
Rotary hoe

Snow plow
Salt and sand spreader
Front winch
Rock clamp
Ground auger
Hydraulic breaker
Front scarifier

Loading Fork

		Without counterweight (valid for all tyres)	With 450 kg counterweight (valid for all tyres)
Tipping load, articulated (DIN 24094)	kg	3400	4000
Lifting Force	daN	4500	4500
Payload			
smooth surfaces	kg	2700	3200
rough surfaces	kg	1700	2000

Data only applicable to Zettelmeyer loading fork code 9514 and centre of gravity distance 500 mm.

